

Environmental Management
Office of River Protection
FY 2012 Budget Workshop



May 25, 2010

U.S. Department of Energy

Key Points

May 2010

FY 2012 Budget Workshop

- ORP is committed to significant accomplishments in cleaning up the site and meeting our compliance commitments
- This briefing reflects the proposed milestones in the Consent Decree/TPA tentative agreement
- This briefing presents planned work scope accomplishments to be performed in FY 2012

Mission: “Retrieve, immobilize and dispose of radioactive and chemical tank waste and close Hanford’s Tank Farms”

ORP Focus Priorities

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- Maintain Safe and Compliant Facilities
- Continue constant safety vigilance and focus
- Achieve Regulatory/TPA Compliance
- Continue WTP construction progress
- Prepare predictable/consistent waste feed delivery system
- Retrieve tank waste to prepare feed to WTP
- Continue integration of Tank Farms and Waste Treatment Plant projects to achieve hot start in 2019
- Prepare the Tank Farms to deliver waste feed reliably and consistently by 2019 and beyond
- Work closely with Regulators, Tribes, Stakeholders and public on existing work to further progress

ORP Profile

May 2010

FY 2012 Budge Workshop

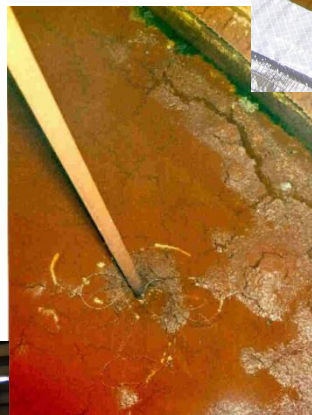
	PBS Title	FY 2010 Appropriation	FY 2011 President's Budget	FY 2012 Baseline
River Protection Budget Summary				
ORP-0014	Tank Farm Activities	\$ 408,000	\$ 418,000	\$ 484,920
ORP-0060	Waste Treatment and Immobilization Plant			
01-D-16A	Low-Activity Waste	\$ 100,000	\$ 57,500	\$ 65,000
01-D-16B	Analytical Laboratory	\$ 55,000	\$ 2,500	\$ 25,000
01-D-16C	Balance of Facilities	\$ 50,000	\$ 5,000	\$ 55,000
01-D-16D	High-Level Waste Facility	\$ 160,000	\$ 260,178	\$ 230,000
01-D-16E	Pretreatment Facility	\$ 325,000	\$ 415,000	\$ 315,000
	Total, Waste Treatment and Immobilization Plant	\$ 690,000	\$ 740,178	\$ 690,000
	Total, Office of River Protection	\$ 1,098,000	\$ 1,158,178	\$ 1,174,920

FY 2012 Planned Accomplishments – Tank Farms

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- Manage Tank Farms in a safe and compliant manner
- Complete SST Bulk Retrieval of C-112
- Complete Hard Heel removal from C-104, C-111, C-107 and C-109
- Complete design of C-105
- Continue evaluation/implementation of SST Integrity recommendations (i.e., evaluate SST rebar corrosion potential mapping of concrete rebar & tank steel liner)
- Conduct 242-A Evaporator Campaign
- Complete construction of SX Barrier
- Initiate design of next Barrier
- Complete removal of five Hose-in-Hose Transfer Lines



FY 2012 Planned Accomplishments – Tank Farms

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- Initiate design and procurement activities for AW, AZ, and SY Farm Feed Delivery Systems
- Complete AY/AZ Ventilation System Upgrade design, fabrication and initiate construction
- Complete Mixer Pump 1 & 2 fabrication
- Complete Interim Hanford Storage Facility preliminary design
- Complete Secondary Waste Treatment preliminary design
- Initiate WTP Cold Commissioning activities



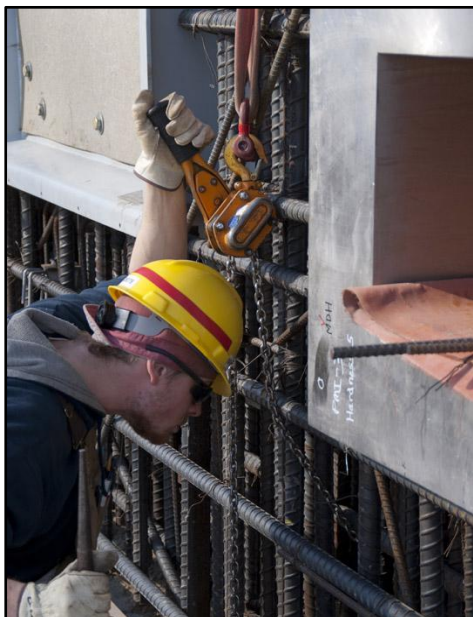
Waste Treatment and Immobilization Plant

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Pretreatment Facility - 73% completed from 63% in FY 2011)

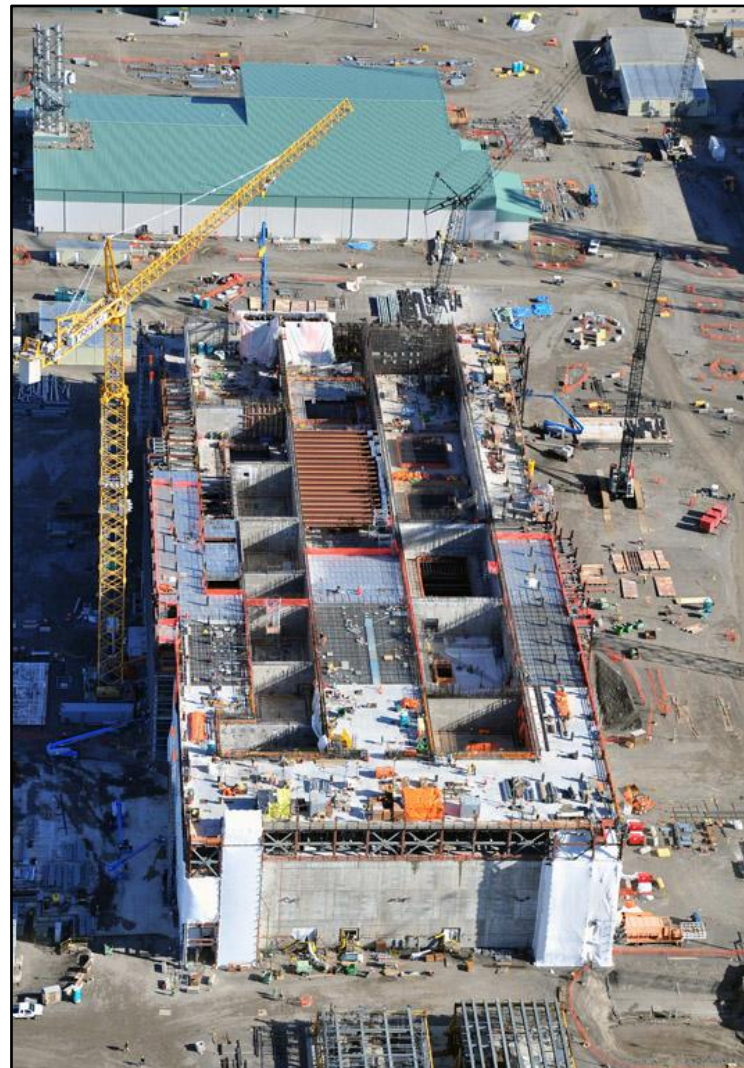
- Complete seismic upgrades for 8 process vessels
- Lift and set the lower piping module in PA03
- Set Waste Feed Evaporation Process vessels
- Complete the Architectural Engineering design
- Complete Jumper Engineering design



A pipefitter on the 56' elevation works to install piping in a rebar wall



A piping module stands near PT's western face



Aerial view March 2010

Waste Treatment and Immobilization Plant

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High-Level Waste - 71% complete from 63% in FY 2011

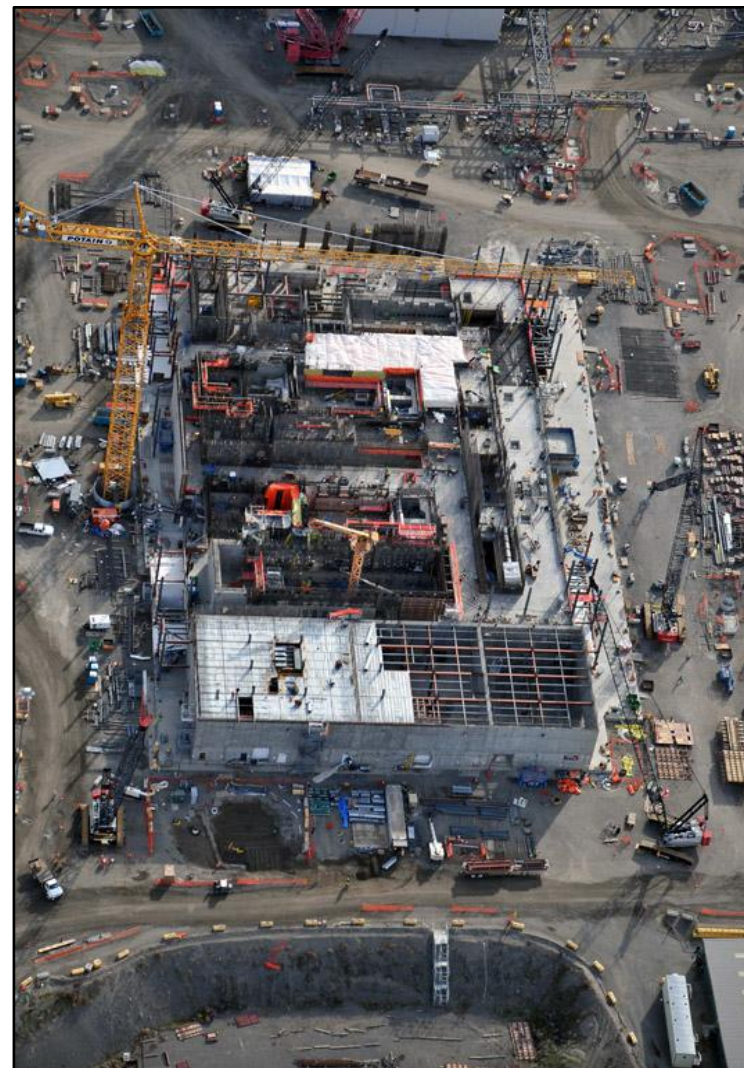
- Complete Structural Steel at EL 37'
- Set HEPA Filter Housing Installation at EL +14'
- Set Off Gas Carbon Absorber



Liner plates for the HEPA filter pre-heaters in the HLW facility at the 14' level of HLW



Concrete formwork is lowered into the 14' elevation of HLW



Aerial view March 2010

Waste Treatment and Immobilization Plant

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Low Activity Waste (LAW) -- 79% Overall Complete from 75% in FY 2011

Analytical Lab (LAB) -- 60% Overall Complete from 56% in FY 2011

Balance of Facilities (BOF) -- 62% Overall Complete from 59% in FY 2011

- LAB Construction Substantially Complete
- Complete construction on the Steam Plant Chiller Compressor Plant, Glass Former Storage and the Anhydrous Ammonia Facility
- Receive LAW Thermal Catalytic Oxidizer, Exhauster and Caustic Scrubber



Looking south from the LAW; Silos; the Glass Former Facility and CCP are visible



Key River Protection Project TPA/Consent Decree Milestones for FY 2012

- LAB Construction Substantially Complete
- Steam Plant Construction Complete
- Complete Structural Steel to Elevation 37' in the HLW Facility